

Investigations of Nanocrystalline Alloy Electrosark Coating Made of Nanocrystalline Alloy Based on 5CP Ferrum

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Abstract

© Published under licence by IOP Publishing Ltd. The article describes the properties of wear resistant electrosark coating made of nanocrystalline alloy of type 5CP (Finemet). It is proved that electrosark coating has nanocrystalline structure which is like amorphous matrix with nanocrystals α - Fe. Coating thickness is 33 μm , micro-hardness is 8461 - 11357 MPa, wear resistance is $0,55 \times 10^{-4}$ s/g. Coating of nanocrystalline alloy of type 5CP can be used to increase wear resistance of machinery working surfaces.

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